	INTERNATIONAL SEARCH REPORT		international appli	cation No.
			PCT/JP2	004/017351
	CATION OF SUBJECT MATTER 7 F16C11/04, F16C11/10			
According to In	ternational Patent Classification (IPC) or to both national	classification and IP	С	
B. FIELDS SE	EARCHED			
Minimum docur Int.Cl	mentation searched (classification system followed by cla F16C11/04, F16C11/10	ssification symbols)		
Jitsuyo Kokai J	itsuyo Shinan Koho 1971-2005 Tor	tsuyo Shinan T roku Jitsuyo S	oroku Koho hinan Koho	1996-2005 1994-2005
	base consulted during the international search (name of d	ata base and, where p	oracticable, search to	erms used)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	JP 2001-59373 A (NHK Spring Co., Ltd.), 06 March, 2001 (06.03.01), Par. Nos. [0034], [0042] to [0046], [0048] to [0049], [0052]; Figs. 3, 4, 8, 10, 12 & WO 2000/077413 A1 & EP 1203890 A1		1-4,6	
Y	JF 11-173327 A (Pureshijon Supuringu Kabushiki Kaisha), 29 June, 1999 (29.06.99), Par. Nos. [0010] to [0012] (Family: none)		1-4,6	
Y	JP 2001-185868 A (Kabushiki I Corporation), 06 July, 2001 (06.07.01), Par. Nos. [0020] to [0031]; F & US 6633643 B1		berry	1-4,6
× Further de	ocuments are listed in the continuation of Box C.	See patent fa	mily annex.	
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		"" I later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the att "&" document member of the same patent family		
Date of the actual completion of the international search 15 March, 2005 (15.03.05)		Date of mailing of the international search report 29 March, 2005 (29.03.05)		
	ng address of the ISA/ se Patent Office	Authorized officer		

INTERNATIONAL SEARCH REPORT

International application No.
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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JF 2003-161311 A (Kabushiki Kaisha Strawberry Corporation), 06 June, 2003 (06.06.03), Par. Nos. [0030] to [0035]; Fig. 6 (Family: none)	1-4,6
Y	JF 9-329127 A (NHK Spring Co., Ltd.), 22 December, 1997 (22.12.97), Par. Nos. [0017] to [0020]; Figs. 7 to 9 (Family: none)	1-4,6
A	JP 10-68412 A (NHK Spring Co., Ltd.), 10 March, 1998 (10.03.98), Full text; Figs. 1 to 17 (Family: none)	1-6
А	JP 2001-107941 A (Katoh Electrical Machinery Co., Ltd.), 17 April, 2001 (17.04.01), Full text; Figs. 1 to 5 & KR 1050634 A	1-6
A	JP 2003-156029 A (Kabushiki Kaisha Osuzu), 30 May, 2003 (30.05.03),. Full text; Fig. 2 (Family: none)	1-6
P,Y	JP 2004-190785 A (Kabushiki Kaisha Strawberry Corporation), 08 July, 2004 (08.07.04), Full text; Fig. 5 (Family: none)	5